

ADDENDA

Added to LeMans schematic and printed circuit boards.

Please make sure that these modifications are done to the printed circuit boards.

1st modification: if for audio getting into video.

- 1) A .1uf 100v mylar capacitor located at C31 next to the 2200uf capacitor by edge of board.

2nd modification: to check for inversion of playfield at free play.

- 1) A 7486 I.C. at location A4 on printed circuit board.

NOTE: 7486 is attached to the top of a 7474 I.C. located at A4.
Only pin 14 and pin 7 are soldered. The rest are bent out
so jumper wire can be attached.

- 2) Cut and lift pins 13 of M7. Pin 11 of B4 and C4 and pin 13 of B7.
- 3) Jumper A7 pin 10 to B7 pin 13.
- 4) Jumper F3 pin 9 to A4 pin 1 (7486).
- 5) Jumper A1 pin 8 to A4 pin 2 (7486).
- 6) Jumper A4 pin 3 (7486) to A4 pin 4 (7486).
- 7) Jumper A4 pin 5 (7486) to nearest pull up resistor.
- 8) Jumper A4 pin 6 (7486) to C4 and B4 pin 11.
- 9) Jumper M7 pin 13 to A4 (7486) pin 9.
- 10) Jumper M2 pin 3 to A4 (7486) pin 10.
- 11) Jumper M7 pin 13 to A4 (7486) pin 8.
- 12) Changed R52, a 330 ohm resistor to a 550 ohm resistor.
- 13) Paralleled a 4.7K ohm resistor across R51.
- 14) Paralleled a IN914 diode across R41.

Make sure that the cathode of diode is connected to the negative side of C26, a 10uf capacitor.

SPARE PARTS LIST

GAME NAME LeMans

*Critical Parts

ITEM	PART NUMBER	QTY.	DESCRIPTION
	37-3400	4	IC 7400
2	37-7402	3	IC 7402
3	37-7404	3	IC 7404
4	37-74504	1	IC 74504
5	37-7406	1	IC 7406
6	37-7408	2	IC 7408
7	37-7410	2	IC 7410
8	37-7413	1	IC 7413
9	37-7427	1	IC 7427
10	37-7442	1	IC 7442
11	37-7474	8	IC 7474
12	37-7486	1	IC 7486
13	37-7493	3	IC 7493
14	37-74107	2	IC 74107
15	37-74153	2	IC 75153
16	37-74164	1	IC 74164
17	37-74165	2	IC 74165
18	37-74192	1	IC 74192
19	37-74193	2	IC 74193
20	37-555	1	IC 555
21	37-566	2	IC 566
22	37-LM309	1	IC LM309K
23	37-LM324	1	IC LM324
24	37-LM380	1	IC LM380
25	37-9314	2	IC 9314
26	37-9316	4	IC 9316
27	37-9321	1	IC 9321
28	37-9322	1	IC 9322

SPARE PARTS LIST

GAME NAME _____

*Critical Parts

ITEM	PART NUMBER	QTY.	DESCRIPTION
29	37-MFC6040	1	IC MFC6040 *
30 Ø	37-MFC3340	1	IC MFC3340
31	37-4011	1	IC 4011
32	37-4016	1	IC 4016
33	37-8L05	1	IC 78L05 *
34	37-7812	1	IC 7812 *
35	37-79L05	1	IC 79L05 *
36	37-7912	1	IC 7912 *
37	005837-01	1	Rom 1 *
38	005838-01	1	Rom 2 *
39	005839-01	1	Rom 3 *
40	35-2N6068A	1	Triac 2N6068A *
Ø Note: If MFC 6040 is not available, MFC 3340 may be substituted.			

LEMANS SPARE PARTS

A000598-03	Steering Assy. (includes A000607)	1
A000608-01	Shift Assy.	1
A004304-07	Start Switch	1
A004798	Foot Pedal Assy.	2
001551-1	X - Former	1

PCB ASSEMBLY

A005844